

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID: ssspta1611txm

PASSWORD :

TERMINAL (ENTER 1, 2, 3, OR ?):2

NEWS 1	Web Page URLs for STN Seminar Schedule - N. America		
NEWS 2	"Ask CAS" for self-help around the clock		
NEWS 3	May 12	EXTEND option available in structure searching	
NEWS 4	May 12	Polymer links for the POLYLINK command completed in REGISTRY	
NEWS 5	May 27	New UPM (Update Code Maximum) field for more efficient patent SDIs in CAplus	
NEWS 6	May 27	CAplus super roles and document types searchable in REGISTRY	
NEWS 7	Jun 28	Additional enzyme-catalyzed reactions added to CASREACT	
NEWS 8	Jun 28	ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG, and WATER from CSA now available on STN(R)	
NEWS 9	Jul 12	BEILSTEIN enhanced with new display and select options, resulting in a closer connection to BABS	
NEWS 10	Jul 30	BEILSTEIN on STN workshop to be held August 24 in conjunction with the 228th ACS National Meeting	
NEWS 11	AUG 02	IFIPAT/IFIUDB/IFICDB reloaded with new search and display fields	
NEWS 12	AUG 02	CAplus and CA patent records enhanced with European and Japan Patent Office Classifications	
NEWS 13	AUG 02	STN User Update to be held August 22 in conjunction with the 228th ACS National Meeting	
NEWS 14	AUG 02	The Analysis Edition of STN Express with Discover! (Version 7.01 for Windows) now available	
NEWS 15	AUG 04	Pricing for the Save Answers for SciFinder Wizard within STN Express with Discover! will change September 1, 2004	
NEWS EXPRESS	JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004		
NEWS HOURS	STN Operating Hours Plus Help Desk Availability		
NEWS INTER	General Internet Information		
NEWS LOGIN	Welcome Banner and News Items		
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN		
NEWS WWW	CAS World Wide Web Site (general information)		

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 15:49:46 ON 06 AUG 2004

=> file reg

FILE 'REGISTRY' ENTERED AT 15:50:04 ON 06 AUG 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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Property values tagged with IC are from the ZIC/VINITI data file
 provided by InfoChem.

STRUCTURE FILE UPDATES: 4 AUG 2004 HIGHEST RN 722454-60-6

DICTIONARY FILE UPDATES: 4 AUG 2004 HIGHEST RN 722454-60-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

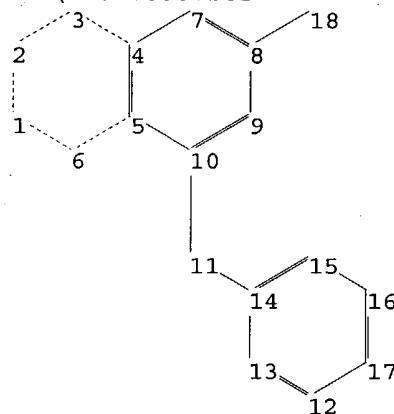
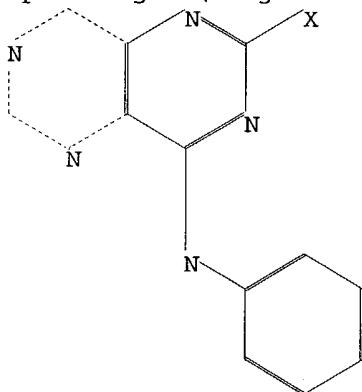
Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
 information enter HELP PROP at an arrow prompt in the file or refer
 to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10670535.str



chain nodes :

11 18

ring nodes :

1 2 3 4 5 6 7 8 9 10 12 13 14 15 16 17

chain bonds :

8-18 10-11 11-14

ring bonds :

1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-10 7-8 8-9 9-10 12-13 12-17 13-14 14-15
15-16 16-17

exact/norm bonds :

1-2 1-6 2-3 3-4 5-6 10-11 11-14

exact bonds :

8-18

normalized bonds :

4-5 4-7 5-10 7-8 8-9 9-10 12-13 12-17 13-14 14-15 15-16 16-17

10/670,535

Thomas McKenzie

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS

L1 STRUCTURE UPLOADED

=> s 11
SAMPLE SEARCH INITIATED 15:50:23 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 13 TO ITERATE

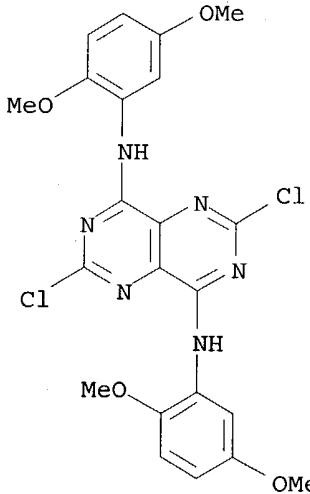
100.0% PROCESSED 13 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 44 TO 476
PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> d scan

L2 1 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Pyrimido[5,4-d]pyrimidine, 2,6-dichloro-4,8-bis(2,5-dimethoxyanilino)-
(7CI, 8CI)
MF C22 H20 Cl2 N6 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

10/670,535 Thomas McKenzie

=> s 11 full
FULL SEARCH INITIATED 15:50:44 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 238 TO ITERATE

100.0% PROCESSED 238 ITERATIONS
SEARCH TIME: 00.00.01

29 ANSWERS

L3 29 SEA SSS FUL L1

=> file caold caplus, s 13; s us-6680384/pn
'S' IS AN AMBIGUOUS FILE OR CLUSTER NAME
SAFETY - Occupational Health and Safety Cluster
SESSION - Current files with L-numbers Cluster
STRUCTURE - Structure Searching Cluster
SUPPLIERS - Product Directories and Suppliers Cluster
SCISEARCH - ISI Science Citation Index from 1974 - present
SIGLE - Grey Literature in Europe from 1976 - present
SOLIDSTATE - Solid State and Superconductivity Abstracts from 1981
SOLIS - German literature in social sciences 1945-present
SPECINFO - Spectral Database Information System
STANDARDS - The International Standards Database
STNGUIDE - Descriptive information about STN databases
STNMAIL - STN Electronic Mail Service
SWETSCAN - Swets Table of Contents from 1993 - present
SYNTHLINE - Synthline Drug Synthesis Database 1984-present
ENTER FILE OR CLUSTER NAME (IGNORE):file reg.

'FILE' IS NOT A VALID FILE NAME

Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

ENTER A FILE NAME OR (IGNORE):.

'REG.' IS NOT A VALID FILE NAME

Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

ENTER A FILE NAME OR (IGNORE):.

'L3' IS NOT A VALID FILE NAME

Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

ENTER A FILE NAME OR (IGNORE):.

FILE 'CAOLD' ENTERED AT 15:52:00 ON 06 AUG 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE 'CAPLUS' ENTERED AT 15:52:00 ON 06 AUG 2004

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L4 1 US-6680384/PN

=> file caold caplus; s 13; s us-6680384/pn

FILE 'CAOLD' ENTERED AT 15:52:19 ON 06 AUG 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

10/670,535

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FILE 'CAPLUS' ENTERED AT 15:52:19 ON 06 AUG 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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L5 14 L3

L6 1 US-6680384/PN

=> s 15 not 16

L7 13 L5 NOT L6

=> sort py 17

SORT ENTIRE ANSWER SET? (Y)/N:.

2 ANSWERS DID NOT HAVE 'PY' SORT FIELD

PROCESSING COMPLETED FOR L7

L8 13 SORT L7 PY

=> d 1-13 cbib pi hitstr

L8 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN

1959:67806 Document No. 53:67806 Original Reference No. 53:12317d-i,12318a-i,12319a Derivatives of pyrimido[5,4-d]pyrimidine. (Dr. Karl Thomae G. m. b. H.; Chemisch-pharmazeutische Fabrik). GB 807826 19590121 (Unavailable). APPLICATION: GB .

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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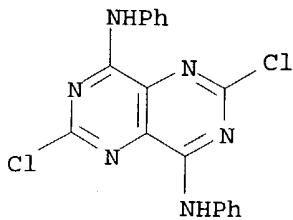
PI	GB 807826	19590121	GB	
----	-----------	----------	----	--

IT	93819-72-8, Pyrimido[5,4-d]pyrimidine, 4,8-dianilino-2,6-dichloro-			
----	--	--	--	--

	94210-50-1, Pyrimido[5,4-d]pyrimidine, 2,6-dichloro-4,8-bis(p-chloroanilino)-	94623-02-6, Pyrimido[5,4-d]pyrimidine,		
	4,8-di-o-anisidino-2-chloro-	94803-23-3, Pyrimido[5,4-d]pyrimidine,		
	2-chloro-4,8-bis(p-nitroanilino)-	95291-50-2,		
	Pyrimido[5,4-d]pyrimidine, 2,6-dichloro-4,8-bis(p-dimethylaminoanilino)-			
	100574-02-5, Ethanol, 2,2'-(2,6-dichloropyrimido[5,4-d]pyrimidine-4,8-diyl)bis(phenylimino)]di-			
	(preparation of)			

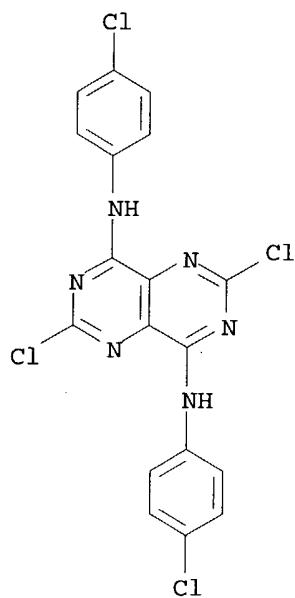
RN	93819-72-8 CAPLUS			
----	-------------------	--	--	--

CN	Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-diphenyl- (9CI) (CA INDEX NAME)			
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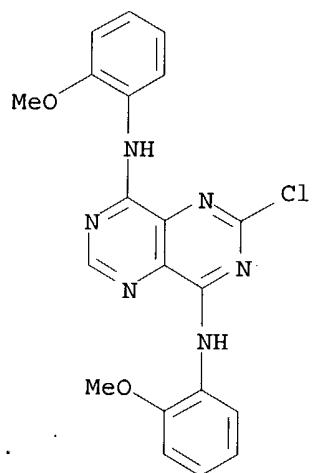


RN 94210-50-1 CAPLUS

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-bis(4-chlorophenyl)- (9CI) (CA INDEX NAME)

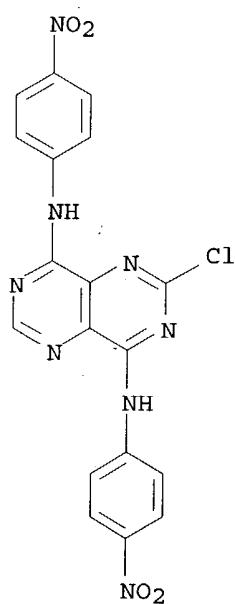


RN 94623-02-6 CAPLUS

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2-chloro-N,N'-bis(2-methoxyphenyl)-
(9CI) (CA INDEX NAME)

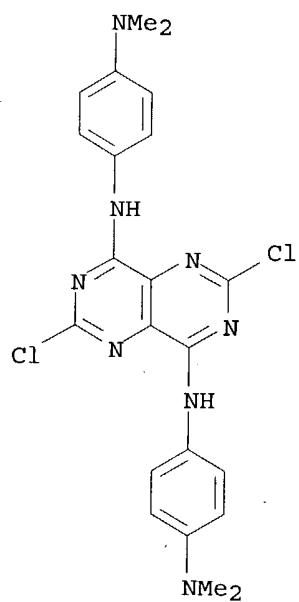
RN 94803-23-3 CAPLUS

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2-chloro-N,N'-bis(4-nitrophenyl)-
(9CI) (CA INDEX NAME)



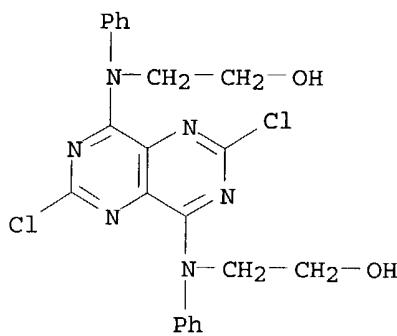
RN 95291-50-2 CAPLUS

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-bis[4-(dimethylamino)phenyl]- (9CI) (CA INDEX NAME)



RN 100574-02-5 CAPLUS

CN Ethanol, 2,2'-[2,6-dichloropyrimido[5,4-d]pyrimidine-4,8-diyl]bis(phenylimino)bis- (9CI) (CA INDEX NAME)



L8 ANSWER 2 OF 13 CAOLD COPYRIGHT 2004 ACS on STN

CA58:11378e pyrimido[5,4-d]pyrimidines. Fischer, Franz C.; Roch, J.; Kottler, A.

pyrimido[5,4-d]pyrimidines. Thomae, Dr. Karl, G.m.b.H.

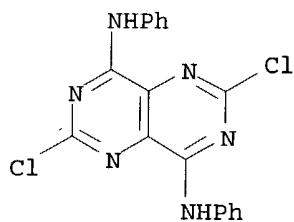
Patent Info.: US 3031450 1962

PATENT NO. KIND DATE

PI US 3031450 1962
 IT 93819-72-8 94210-50-1 94623-02-6
 94803-23-3 95291-50-2 100574-02-5
 101795-31-7

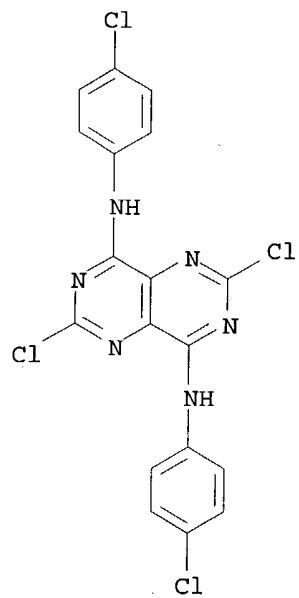
RN 93819-72-8 CAOLD

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-diphenyl- (9CI)
 (CA INDEX NAME)

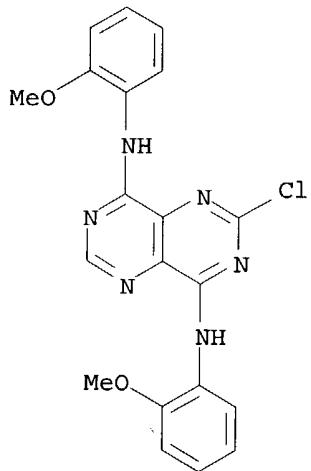


RN 94210-50-1 CAOLD

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-bis(4-chlorophenyl)- (9CI) (CA INDEX NAME)

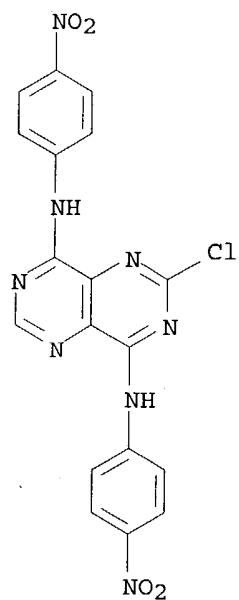


RN 94623-02-6 CAOLD

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2-chloro-N,N'-bis(2-methoxyphenyl)-
(9CI) (CA INDEX NAME)

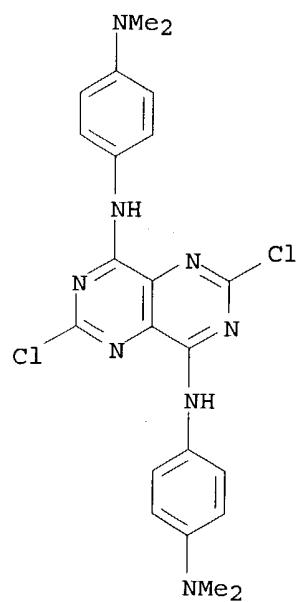
RN 94803-23-3 CAOLD

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2-chloro-N,N'-bis(4-nitrophenyl)-
(9CI) (CA INDEX NAME)



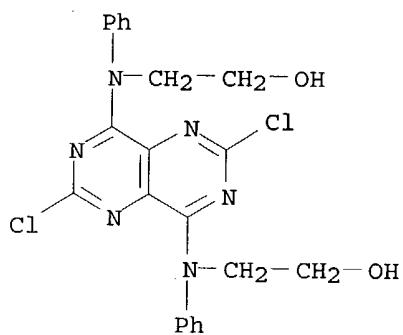
RN 95291-50-2 CAOLD

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-bis[4-(dimethylamino)phenyl]- (9CI) (CA INDEX NAME)



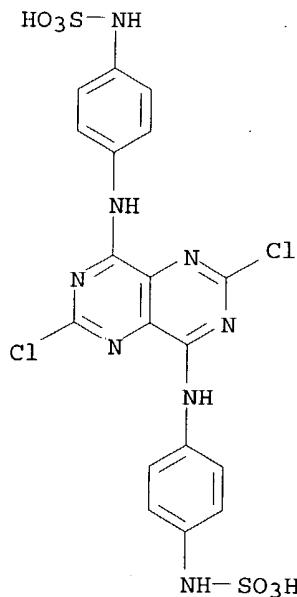
RN 100574-02-5 CAOLD

CN Ethanol, 2,2'-[(2,6-dichloropyrimido[5,4-d]pyrimidine-4,8-diyl)bis(phenylimino)]bis- (9CI) (CA INDEX NAME)



RN 101795-31-7 CAOLD

CN Sulfamic acid, [(2,6-dichloropyrimido[5,4-d]pyrimidine-4,8-diyl)bis-(imino-p-phenylene)]di- (7CI) (CA INDEX NAME)



L8 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN

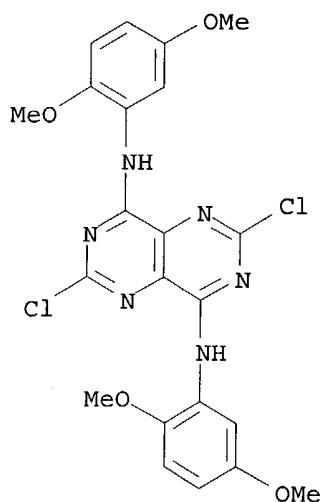
1965:454642 Document No. 63:54642 Original Reference No. 63:9942b-d

Pyrimido[5,4-d]pyrimidines. Giannini, M.; Bacciarelli, C. (Lab. Ric. Ist. Farm. Biol. Malesci, Florence). Bollettino Chimico Farmaceutico, 101(9), 721-7 (Italian) 1962. CODEN: BCFAAI. ISSN: 0006-6648.

IT 2829-71-2, Pyrimido[5,4-d]pyrimidine, 2,6-dichloro-4,8-bis(2,5-dimethoxyanilino) -
(preparation of)

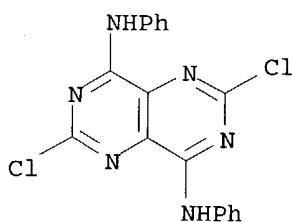
RN 2829-71-2 CAPLUS

CN Pyrimido[5,4-d]pyrimidine, 2,6-dichloro-4,8-bis(2,5-dimethoxyanilino) -
(7CI, 8CI) (CA INDEX NAME)

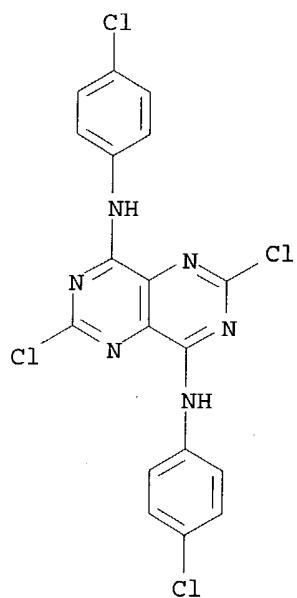


L8 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
 1963:66530 Document No. 58:66530 Original Reference No. 58:11378e-h, 11379a-h, 11380a-h, 11381a-c Pyrimido[5,4-d]pyrimidines. Fischer, Franz G.; Roch, Josef; Kottler, August (Dr. Karl Thomae G.m.b.H.). US 3031450 19620424, 17 pp. (Unavailable). PRIORITY: DE 19590430.

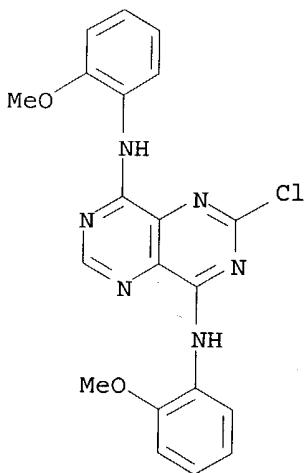
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 3031450	19620424	US		
IT 93819-72-8	Pyrimido[5,4-d]pyrimidine, 4,8-dianilino-2,6-dichloro-94210-50-1; Pyrimido[5,4-d]pyrimidine, 2,6-dichloro-4,8-bis(p-chloroanilino)-94623-02-6; Pyrimido[5,4-d]pyrimidine, 4,8-di-o-anisidino-2-chloro-94803-23-3; Pyrimido[5,4-d]pyrimidine, 2-chloro-4,8-bis(p-nitroanilino)-95291-50-2; Pyrimido[5,4-d]pyrimidine, 2,6-dichloro-4,8-bis[p-(dimethylamino)anilino]-100574-02-5; Ethanol, 2,2'-[{(2,6-dichloropyrimido[5,4-d]pyrimidine-4,8-diyl)bis(phenylimino)}di-101795-31-7; Sulfamic acid, [{(2,6-dichloropyrimido[5,4-d]pyrimidine-4,8-diyl)bis(imino-p-phenylene)}di-(preparation of)			
RN 93819-72-8 CAPLUS				
CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-diphenyl- (9CI) (CA INDEX NAME)				



RN 94210-50-1 CAPLUS
 CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-bis(4-chlorophenyl)- (9CI) (CA INDEX NAME)

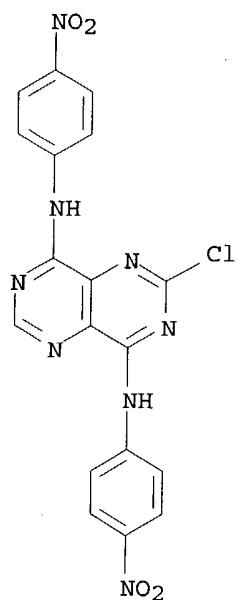


RN 94623-02-6 CAPLUS

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2-chloro-N,N'-bis(2-methoxyphenyl)-
(9CI) (CA INDEX NAME)

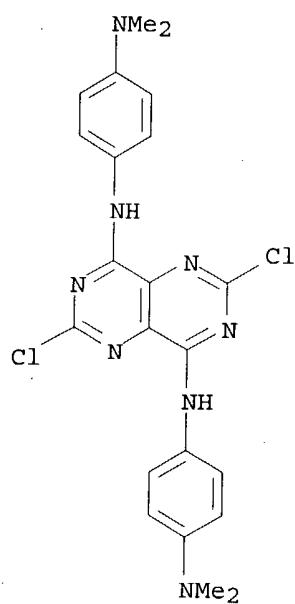
RN 94803-23-3 CAPLUS

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2-chloro-N,N'-bis(4-nitrophenyl)-
(9CI) (CA INDEX NAME)



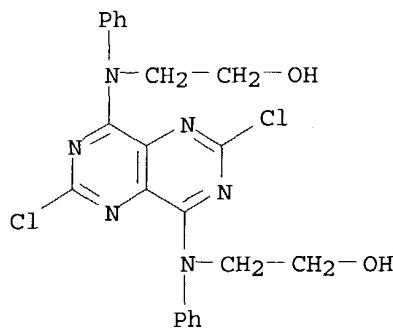
RN 95291-50-2 CAPLUS

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-bis[4-(dimethylamino)phenyl]- (9CI) (CA INDEX NAME)



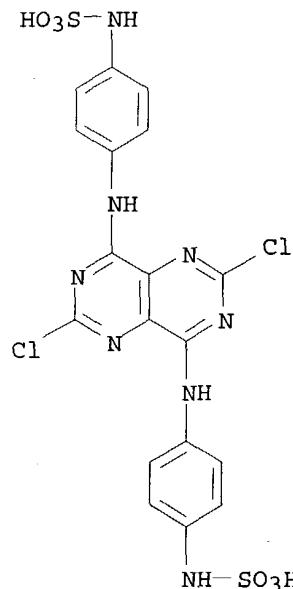
RN 100574-02-5 CAPLUS

CN Ethanol, 2,2'-(2,6-dichloropyrimido[5,4-d]pyrimidine-4,8-diyl)bis(phenylimino)bis- (9CI) (CA INDEX NAME)



RN 101795-31-7 CAPLUS

CN Sulfamic acid, [(2,6-dichloropyrimido[5,4-d]pyrimidine-4,8-diyl)bis-(imino-p-phenylene)]di- (7CI) (CA INDEX NAME)



L8 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN

1969:404488 Document No. 71:4488 Reactive dyes. V. Reactive dyes derived from 2,4,6,8-tetrachloropyrimido[5,4-d]pyrimidine. Iida, Hiroko; Tsukada, Masashi; Iida, Hirotada (Govt. Chem. Ind. Res. Inst., Tokyo, Japan). Kogyo Kagaku Zasshi, 71(12), 2033-7 (Japanese) 1968. CODEN: KGKZA7.

ISSN: 0368-5462.

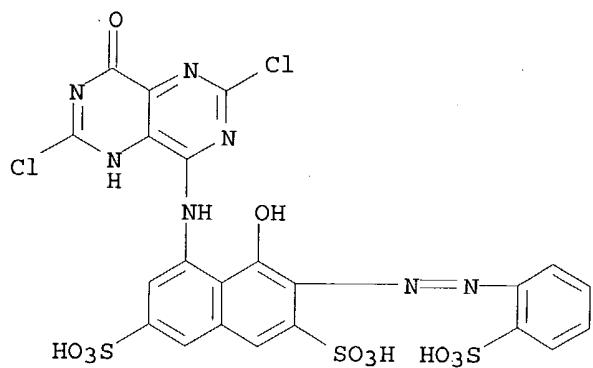
IT 23222-98-2P 23222-99-3P 23223-00-9P

23223-01-0P 23223-02-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 23222-98-2 CAPLUS

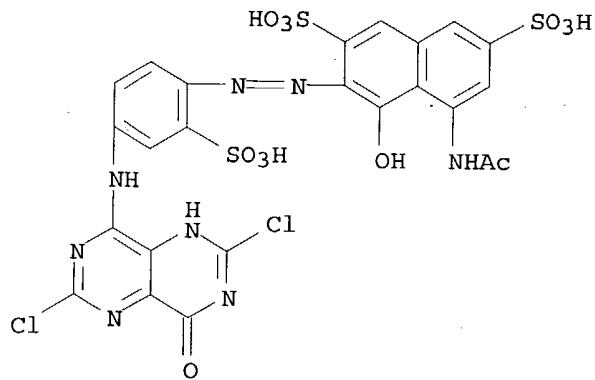
CN 2,7-Naphthalenedisulfonic acid, 5-[(2,6-dichloro-5,8-dihydro-8-oxopyrimido[5,4-d]pyrimidin-4-yl)amino]-4-hydroxy-3-[(2-sulfophenyl)azo]-, trisodium salt (9CI) (CA INDEX NAME)



● 3 Na

RN 23222-99-3 CAPLUS

CN 2,7-Naphthalenedisulfonic acid, 5-(acetylamino)-3-[[4-[(2,6-dichloro-5,8-dihydro-8-oxopyrimido[5,4-d]pyrimidin-4-yl)amino]-2-sulfophenyl]azo]-4-hydroxy-, trisodium salt (9CI) (CA INDEX NAME)

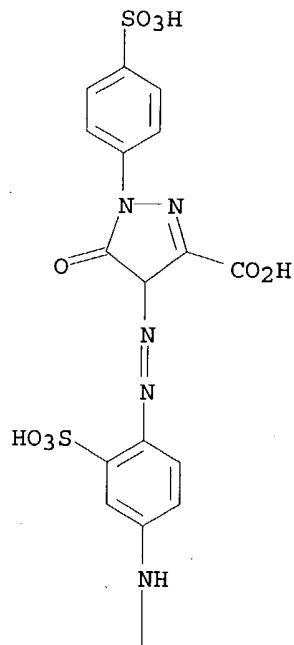


● 3 Na

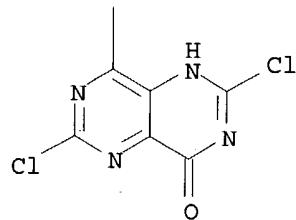
RN 23223-00-9 CAPLUS

CN 1H-Pyrazole-3-carboxylic acid, 4-[[4-[(2,6-dichloro-8-hydroxypyrimido[5,4-d]pyrimidin-4-yl)amino]-2-sulfophenyl]azo]-4,5-dihydro-5-oxo-1-(4-sulfophenyl)-, disodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



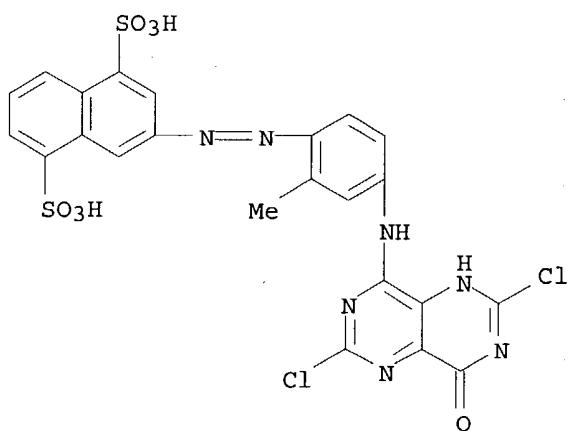
PAGE 2-A



●2 Na

RN 23223-01-0 CAPLUS

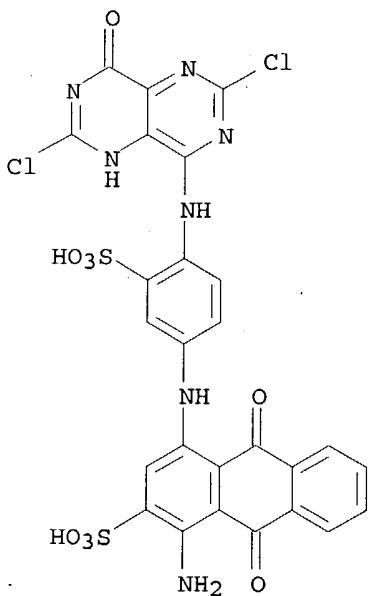
CN 1,5-Naphthalenedisulfonic acid, 3-[(4-[(2,6-dichloro-8-hydroxypyrimido[5,4-d]pyrimidin-4-yl)amino]-3-methylphenyl)azo]-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

RN 23223-02-1 CAPLUS

CN 2-Anthracenesulfonic acid, 1-amino-4-[(4-[(2,6-dichloro-8-hydroxypyrimido[5,4-d]pyrimidin-4-yl)amino]-3-sulfophenyl)amino]-9,10-dihydro-9,10-dioxo-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

L8 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN

1972:490047 Document No. 77:90047 Water-soluble fiber-reactive dyes. Iida, Hirotada; Iida, Hiroko (Japan, Bureau of Industrial Technology). Jpn. Tokkyo Koho JP 47008458 B4 19720310 Showa, 4 pp. (Japanese). CODEN: JAXXAD. APPLICATION: JP 1968-20023 19680329.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 47008458	B4	19720310	JP 1968-20023	19680329

10/670,535

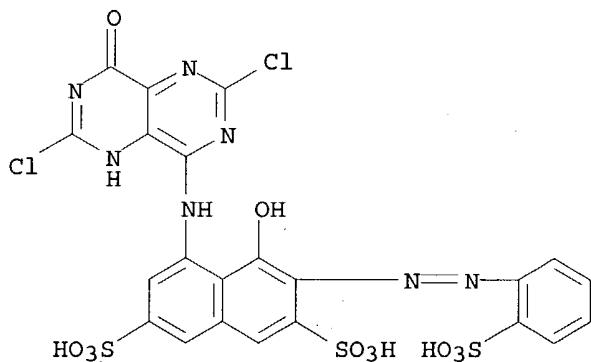
Thomas McKenzie

IT 23222-98-2P 23222-99-3P 23223-00-9P
23223-01-0P 23223-02-1P 38885-26-6P

RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)

RN 23222-98-2 CAPLUS

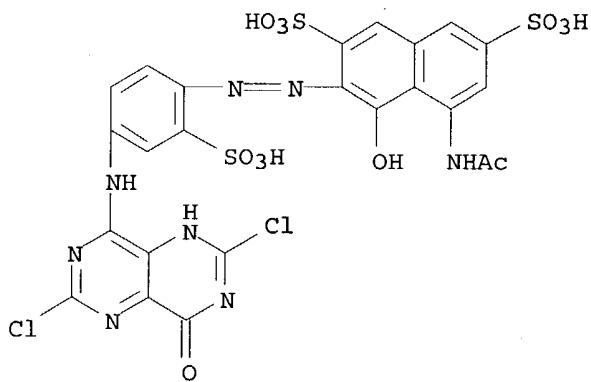
CN 2,7-Naphthalenedisulfonic acid, 5-[(2,6-dichloro-5,8-dihydro-8-oxopyrimido[5,4-d]pyrimidin-4-yl)amino]-4-hydroxy-3-[(2-sulfophenyl)azo]-, trisodium salt (9CI) (CA INDEX NAME)



●3 Na

RN 23222-99-3 CAPLUS

CN 2,7-Naphthalenedisulfonic acid, 5-(acetylamino)-3-[(4-[(2,6-dichloro-5,8-dihydro-8-oxopyrimido[5,4-d]pyrimidin-4-yl)amino]-2-sulfophenyl)azo]-4-hydroxy-, trisodium salt (9CI) (CA INDEX NAME)

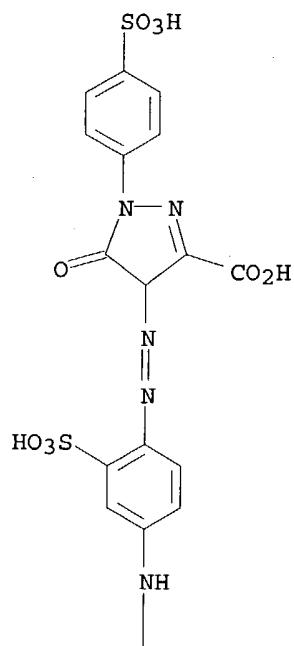


●3 Na

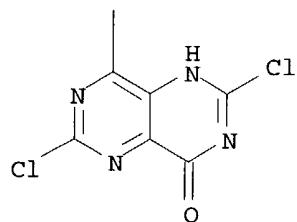
RN 23223-00-9 CAPLUS

CN 1H-Pyrazole-3-carboxylic acid, 4-[(4-[(2,6-dichloro-8-hydroxypyrimido[5,4-d]pyrimidin-4-yl)amino]-2-sulfophenyl)azo]-4,5-dihydro-5-oxo-1-(4-sulfophenyl)-, disodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

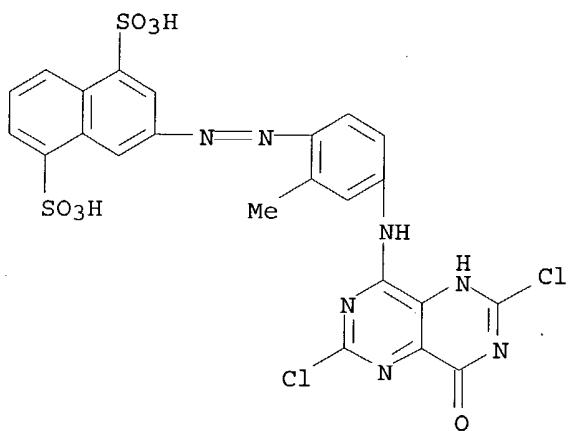


PAGE 2-A



●2 Na

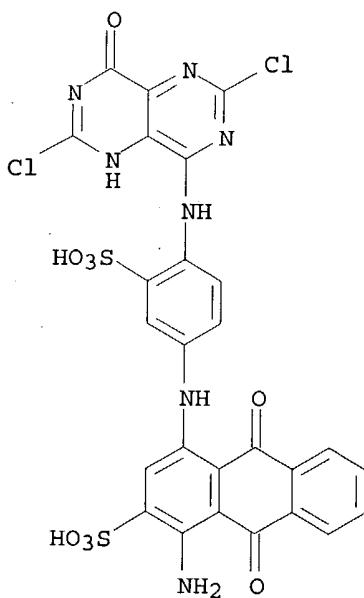
RN 23223-01-0 CAPLUS
 CN 1,5-Naphthalenedisulfonic acid, 3-[[4-[(2,6-dichloro-8-hydroxypyrimido[5,4-d]pyrimidin-4-yl)amino]-3-methylphenyl]azo]-, disodium salt (9CI) (CA
 INDEX NAME)



●2 Na

RN 23223-02-1 CAPLUS

CN 2-Anthracenesulfonic acid, 1-amino-4-[[4-[(2,6-dichloro-8-hydroxypyrimido[5,4-d]pyrimidin-4-yl)amino]-3-sulfophenyl]amino]-9,10-dihydro-9,10-dioxo-, disodium salt (9CI) (CA INDEX NAME)

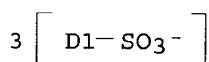
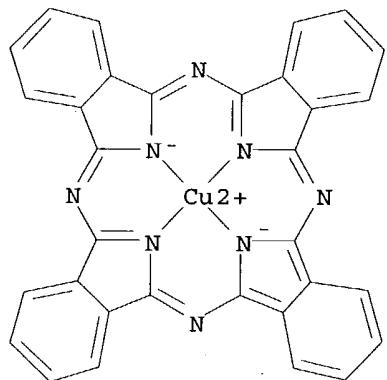


●2 Na

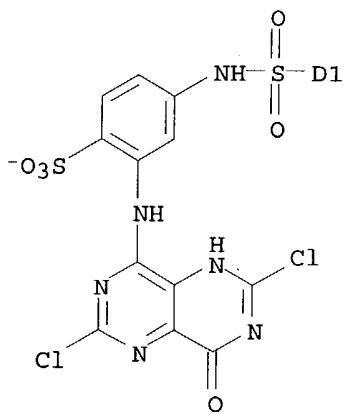
RN 38885-26-6 CAPLUS

CN Cuprate(4-), [C-[[[3-[(2,6-dichloro-8-hydroxypyrimido[5,4-d]pyrimidin-4-yl)amino]-4-sulfophenyl]amino]sulfonyl]-29H,31H-phthalocyanine-C,C,C-trisulfonato(6-)N29,N30,N31,N32]-, tetrahydrogen (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● 4 H⁺

L8 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
 1986:186450 Document No. 104:186450 8-(Alkylthio)-2-piperazinopyrimido[5,4-d]pyrimidines. Roch, Josef; Heckel, Armin; Nickl, Josef; Mueller, Erich; Narr, Berthold; Zimmermann, Rainer; Weisenberger, Johannes Dipl Che (Thomae, Dr. Karl, G.m.b.H., Fed. Rep. Ger.). Ger. Offen. DE 3423092 A1 19860102, 32 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1984-3423092 19840622.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 3423092	A1	19860102	DE 1984-3423092	19840622
	EP 167817	A1	19860115	EP 1985-106900	19850604
	EP 167817	B1	19890920		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AT	46511	E	19891015	AT 1985-106900	19850604
US	4714698	A	19871222	US 1985-745095	19850617
FI	8502445	A	19851223	FI 1985-2445	19850620
FI	80455	B	19900228		
FI	80455	C	19900611		
NO	8502514	A	19851223	NO 1985-2514	19850621
NO	161620	B	19890529		
NO	161620	C	19890906		
DK	8502822	A	19851223	DK 1985-2822	19850621
AU	8543968	A1	19860102	AU 1985-43968	19850621
AU	579869	B2	19881215		
JP	61015883	A2	19860123	JP 1985-135820	19850621
JP	06094465	B4	19941124		
ES	544417	A1	19860201	ES 1985-544417	19850621
ZA	8504683	A	19870225	ZA 1985-4683	19850621
CA	1241325	A1	19880830	CA 1985-484743	19850621
IL	75596	A1	19880930	IL 1985-75596	19850621

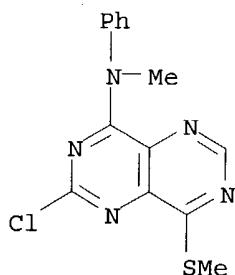
IT 101850-63-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and aminolysis of, by piperazine)

RN 101850-63-9 CAPLUS

CN Pyrimido[5,4-d]pyrimidin-4-amine, 2-chloro-N-methyl-8-(methylthio)-N-phenyl- (9CI) (CA INDEX NAME)



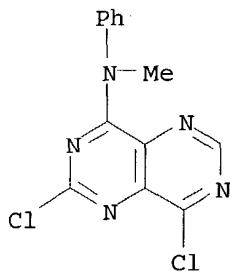
IT 101850-48-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and thiolation of, by methanethiol)

RN 101850-48-0 CAPLUS

CN Pyrimido[5,4-d]pyrimidin-4-amine, 2,8-dichloro-N-methyl-N-phenyl- (9CI) (CA INDEX NAME)



L8 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
 1996:371898 Document No. 125:33669 Preparation of 4-(phenylamino)pyrimido[5,4-d]pyrimidines as epidermal growth factor receptor antagonists. Himmelsbach, Frank; Von Rueden, Thomas; Dahmann, Georg; Metz, Thomas (Dr. Karl Thomae GmbH, Germany). PCT Int. Appl. WO 9607657 A1 19960314, 231 pp. DESIGNATED STATES: W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, MD, MG, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SK, TJ, TM, TT, UA, UG, UZ, VN; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (German). CODEN: PIXXD2. APPLICATION: WO 1995-EP3482 19950905. PRIORITY: DE 1994-4431867 19940907; DE 1995-19503151 19950201; DE 1995-19521386 19950613; DE 1995-19528672 19950804.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9607657	A1	19960314	WO 1995-EP3482	19950905
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, MD, MG, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SK, TJ, TM, TT, UA, UG, UZ, VN				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
DE 4431867	A1	19960314	DE 1994-4431867	19940907
DE 19503151	A1	19960808	DE 1995-19503151	19950201
DE 19521386	A1	19961219	DE 1995-19521386	19950613
DE 19528672	A1	19970206	DE 1995-19528672	19950804
AU 9535218	A1	19960327	AU 1995-35218	19950905
AU 688972	B2	19980319		
EP 779888	A1	19970625	EP 1995-931988	19950905
EP 779888	B1	19990428		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 10505078	T2	19980519	JP 1995-509206	19950905
NO 9701038	A	19970506	NO 1997-1038	19970306
BG 62969	B1	20001229	BG 1997-101289	19970306
FI 9700968	A	19970506	FI 1997-968	19970307
HK 1000837	A1	20001103	HK 1997-102471	19971217

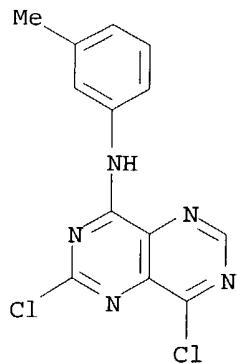
IT 176637-03-9P 176637-04-0P 176637-11-9P

176637-89-1P 176637-90-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of 4-(phenylamino)pyrimido[5,4-d]pyrimidines as epidermal growth factor receptor antagonists)

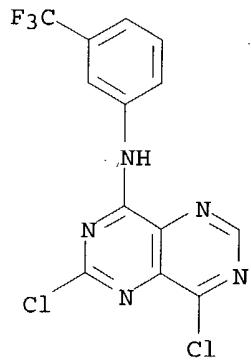
RN 176637-03-9 CAPLUS

CN Pyrimido[5,4-d]pyrimidin-4-amine, 2,8-dichloro-N-(3-methylphenyl)- (9CI)
 (CA INDEX NAME)



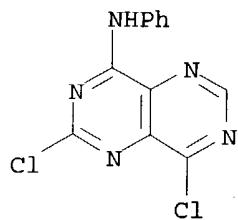
RN 176637-04-0 CAPLUS

CN Pyrimido[5,4-d]pyrimidin-4-amine, 2,8-dichloro-N-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



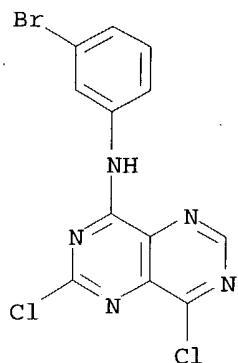
RN 176637-11-9 CAPLUS

CN Pyrimido[5,4-d]pyrimidin-4-amine, 2,8-dichloro-N-phenyl- (9CI) (CA INDEX NAME)

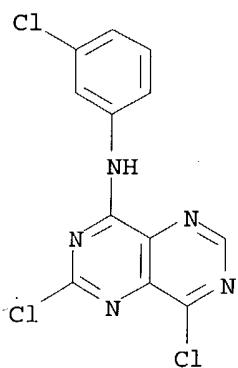


RN 176637-89-1 CAPLUS

CN Pyrimido[5,4-d]pyrimidin-4-amine, N-(3-bromophenyl)-2,8-dichloro- (9CI) (CA INDEX NAME)



RN 176637-90-4 CAPLUS

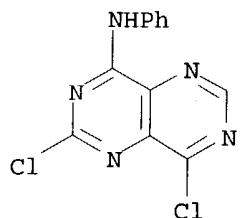
CN Pyrimido[5,4-d]pyrimidin-4-amine, 2,8-dichloro-N-(3-chlorophenyl)- (9CI)
(CA INDEX NAME)

L8 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN

1996:303725 Document No. 124:343326 Preparation of substituted
4-aminopyrimido[5,4-d]pyrimidine antineoplastic agents. Himmelsbach,
Frank; Von rueden, Thomas (Dr. Karl Thomae GmbH, Germany). Ger. Offen. DE
4431867 A1 19960314, 39 pp. (German). CODEN: GWXXBX. APPLICATION: DE
1994-4431867 19940907.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4431867	A1	19960314	DE 1994-4431867	19940907
	TW 414798	B	20001211	TW 1995-84109086	19950831
	CA 2199401	AA	19960304	CA 1995-2199401	19950905
	WO 9607657	A1	19960314	WO 1995-EP3482	19950905
	W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, MD, MG, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SK, TJ, TM, TT, UA, UG, UZ, VN				
	RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9535218	A1	19960327	AU 1995-35218	19950905
	AU 688972	B2	19980319		
	EP 779888	A1	19970625	EP 1995-931988	19950905
	EP 779888	B1	19990428		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				

CN 1157619	A 19970820	CN 1995-194919	19950905
CN 1047778	B 19991229		
JP 10505078	T2 19980519	JP 1995-509206	19950905
HU 77744	A2 19980728	HU 1998-482	19950905
AT 179420	E 19990515	AT 1995-931988	19950905
ES 2133800	T3 19990916	ES 1995-931988	19950905
JP 3184533	B2 20010709	JP 1996-509206	19950905
ZA 9507464	A 19970306	ZA 1995-7464	19950906
US 5707989	A 19980113	US 1995-524707	19950907
NO 9701038	A 19970506	NO 1997-1038	19970306
BG 62969	B1 20001229	BG 1997-101289	19970306
FI 9700968	A 19970506	FI 1997-968	19970307
HK 1000837	A1 20001103	HK 1997-102471	19971217
IT 176637-11-9			
RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of substituted 4-aminopyrimido[5,4-d]pyrimidine antineoplastic agents)			
RN 176637-11-9	CAPLUS		
CN Pyrimido[5,4-d]pyrimidin-4-amine, 2,8-dichloro-N-phenyl- (9CI) (CA INDEX NAME)			

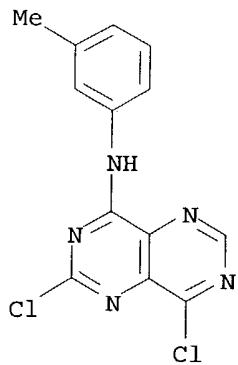


IT 176637-03-9P 176637-04-0P 176637-89-1P
176637-90-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of substituted 4-aminopyrimido[5,4-d]pyrimidine antineoplastic agents)

RN 176637-03-9 CAPLUS

CN Pyrimido[5,4-d]pyrimidin-4-amine, 2,8-dichloro-N-(3-methylphenyl)- (9CI) (CA INDEX NAME)



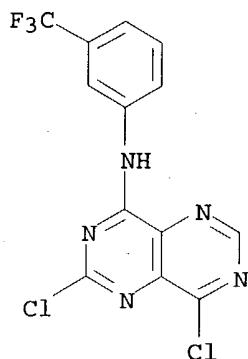
RN 176637-04-0 CAPLUS

CN Pyrimido[5,4-d]pyrimidin-4-amine, 2,8-dichloro-N-[3-

10/670,535

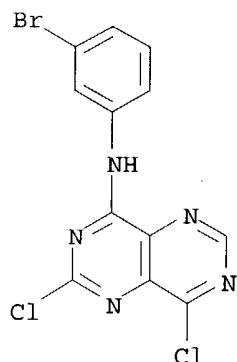
Thomas McKenzie

(trifluoromethyl)phenyl] - (9CI) (CA INDEX NAME)



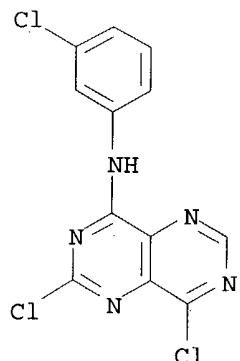
RN 176637-89-1 CAPLUS

CN Pyrimido[5,4-d]pyrimidin-4-amine, N-(3-bromophenyl)-2,8-dichloro- (9CI)
(CA INDEX NAME)



RN 176637-90-4 CAPLUS

CN Pyrimido[5,4-d]pyrimidin-4-amine, 2,8-dichloro-N-(3-chlorophenyl)- (9CI)
(CA INDEX NAME)



L8 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN

10/670,535

Thomas McKenzie

2001:355083 Document No. 134:353321 Pyrimido[5,4-d]pyrimidine and [(alkylsulfonyl)benzylidene]indeneacetate combinations as antitumor agents. Pamukcu, Rifat; Piazza, Gary A. (Cell Pathways, Inc., USA). U.S. US 6232312 B1 20010515, 23 pp., Cont. of U.S. Ser. No. 485,471, abandoned. (English). CODEN: USXXAM. APPLICATION: US 1998-27334 19980220. PRIORITY: US 1995-485471 19950607.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI US 6232312 B1 20010515 US 1998-27334 19980220

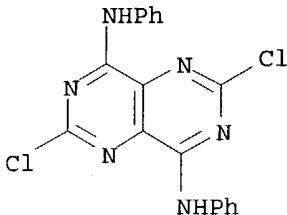
IT 93819-72-8P 94210-50-1P 94623-02-6P

94803-23-3P 95291-50-2P 100574-02-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(pyrimido[5,4-d]pyrimidine and [(alkylsulfonyl)benzylidene]indeneacetate combinations as antitumor agents)

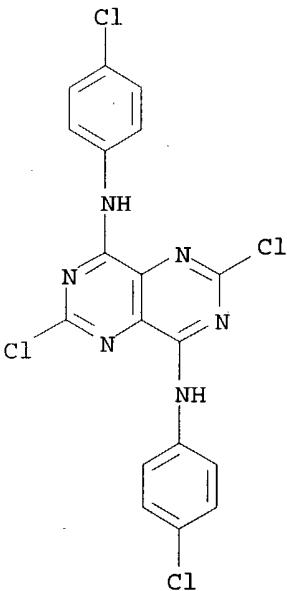
RN 93819-72-8 CAPLUS

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-diphenyl- (9CI)
(CA INDEX NAME)



RN 94210-50-1 CAPLUS

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-bis(4-chlorophenyl)- (9CI) (CA INDEX NAME)

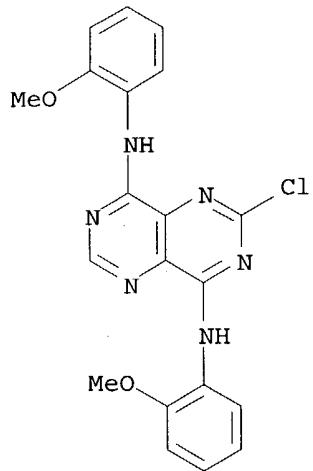


RN 94623-02-6 CAPLUS

10/670,535

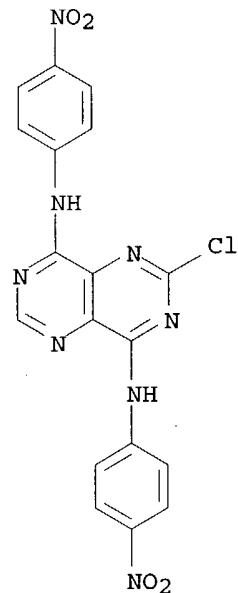
Thomas McKenzie

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2-chloro-N,N'-bis(2-methoxyphenyl)-
(9CI) (CA INDEX NAME)



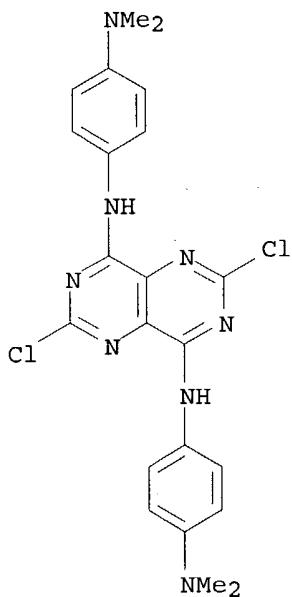
RN 94803-23-3 CAPLUS

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2-chloro-N,N'-bis(4-nitrophenyl)-
(9CI) (CA INDEX NAME)



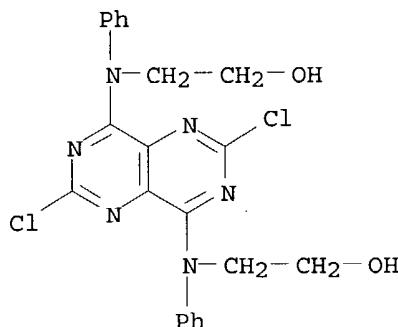
RN 95291-50-2 CAPLUS

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-bis[4-(dimethylamino)phenyl]- (9CI) (CA INDEX NAME)



RN 100574-02-5 CAPLUS

CN Ethanol, 2,2'-(2,6-dichloropyrimido[5,4-d]pyrimidine-4,8-diyl)bis(phenylimino)]bis- (9CI) (CA INDEX NAME)



L8 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN

2002:71100 Document No. 136:355098 Controlled stepwise conversion of 2,4,6,8-tetrachloropyrimido[5,4-d]pyrimidine into 2,4,6,8-tetrasubstituted pyrimido[5,4-d]pyrimidines. Northen, Julian S.; Boyle, F. Thomas; Clegg, William; Curtin, Nicola J.; Edwards, Andrew J.; Griffin, Roger J.; Golding, Bernard T. (Department of Chemistry, University of Newcastle upon Tyne, Newcastle upon Tyne, NE1 7RU, UK). Journal of the Chemical Society, Perkin Transactions 1 (1), 108-115 (English) 2002. CODEN: JCSPCE. ISSN: 1472-7781. OTHER SOURCES: CASREACT 136:355098. Publisher: Royal Society of Chemistry.

IT 419574-98-4P 419575-06-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

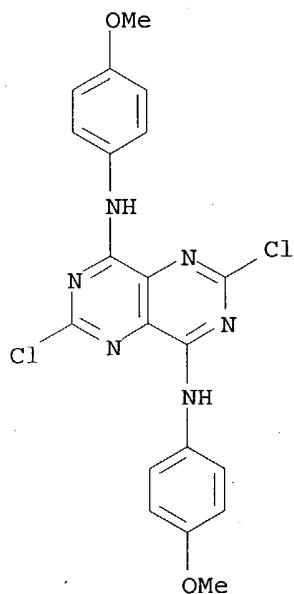
(controlled stepwise conversion of 2,4,6,8-tetrachloropyrimido[5,4-d]pyrimidine into 2,4,6,8-tetrasubstituted pyrimido[5,4-d]pyrimidines)

RN 419574-98-4 CAPLUS

10/670,535

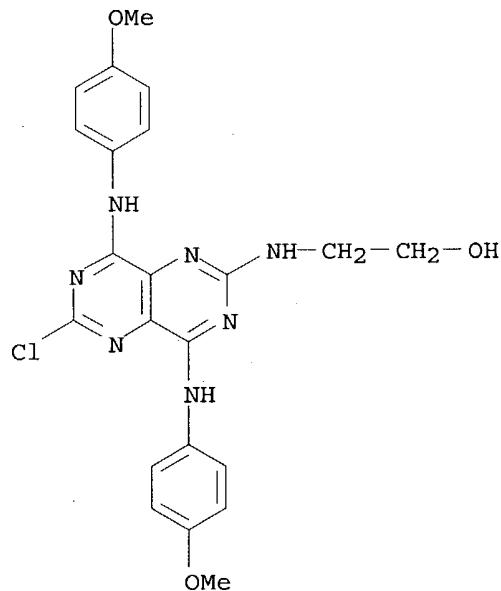
Thomas McKenzie

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 419575-06-7 CAPLUS

CN Ethanol, 2-[6-chloro-4,8-bis[(4-methoxyphenyl)amino]pyrimido[5,4-d]pyrimidin-2-yl]amino]- (9CI) (CA INDEX NAME)

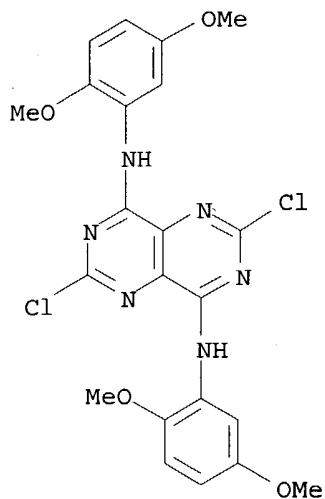


L8 ANSWER 12 OF 13 CAOLD COPYRIGHT 2004 ACS on STN
CA63:9942b pyrimido[5,4,d]pyrimidines. Giannini, Mario; Bacciarelli, C.
IT 2829-71-2
RN 2829-71-2 CAOLD

10/670,535

Thomas McKenzie

CN Pyrimido[5,4-d]pyrimidine, 2,6-dichloro-4,8-bis(2,5-dimethoxyanilino)-
(7CI, 8CI) (CA INDEX NAME)



L8 ANSWER 13 OF 13 CAOLD COPYRIGHT 2004 ACS on STN

CA53:12317d pyrimido 5,4-d pyrimidine derivs.. Thomae, Dr. Karl, G. m. b. H.
Patent Info.: GB 807826; GB 808826; DE 1116676

PATENT NO. KIND DATE

PI GB 807826

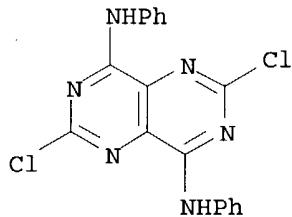
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DE 1116676

IT 93819-72-8 94210-50-1 94623-02-6
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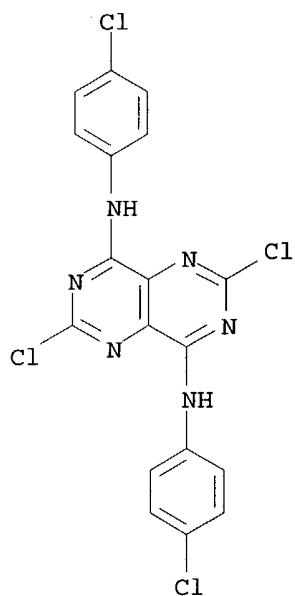
RN 93819-72-8 CAOLD

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-diphenyl- (9CI)
(CA INDEX NAME)

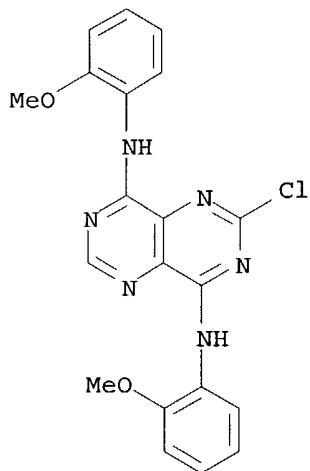


RN 94210-50-1 CAOLD

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-bis(4-chlorophenyl)- (9CI) (CA INDEX NAME)

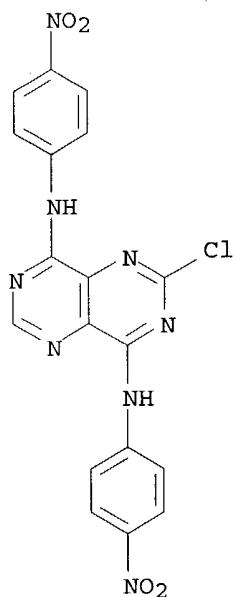


RN 94623-02-6 CAOLD

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2-chloro-N,N'-bis(2-methoxyphenyl)-
(9CI) (CA INDEX NAME)

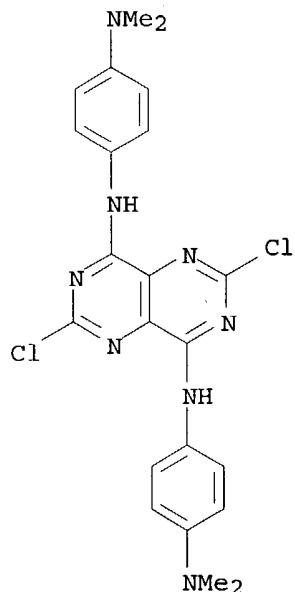
RN 94803-23-3 CAOLD

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2-chloro-N,N'-bis(4-nitrophenyl)-
(9CI) (CA INDEX NAME)



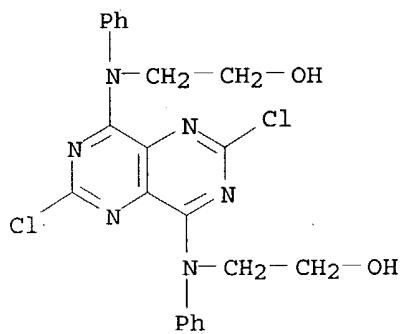
RN 95291-50-2 CAOLD

CN Pyrimido[5,4-d]pyrimidine-4,8-diamine, 2,6-dichloro-N,N'-bis[4-(dimethylamino)phenyl]- (9CI) (CA INDEX NAME)



RN 100574-02-5 CAOLD

CN Ethanol, 2,2'-(2,6-dichloropyrimido[5,4-d]pyrimidine-4,8-diyi)bis(phenylimino)bis- (9CI) (CA INDEX NAME)



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2	6	((544/256).CCLS.) AND "[5,4-d]"	USPAT; US-PGPUB	2004/08/06 15:32
3	5	((544/256).CCLS.) AND "[5,4-d]pyrimidine"	USPAT; US-PGPUB	2004/08/06 15:32
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Friday
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8/6/2004
Time:
15:34:21

PALM INTRANET

Inventor Information for 10/670535

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LOCK, RALF	MAINZ	GERMANY
RALL, WERNER	MITTELBIBERACH	GERMANY

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